

## I CLAIM:

1. A resistance adjuster for adjusting a resistance-providing member, which is in frictional contact with a flywheel of a stationary bicycle, said  
5 resistance adjuster comprising:

a tubular housing adapted to be mounted on the stationary bicycle and defining an axial direction;

an elastic buffering member that is disposed in said housing, that has upper and lower ends opposite  
10 to each other in said axial direction, and that is elastically compressible in said axial direction;

an upper connecting member connected securely to said upper end of said buffering member;

a lower connecting member opposite to said upper  
15 connecting member in said axial direction and connected securely to said lower end of said buffering member;

a first string that extends into said housing to connect securely with said lower connecting member;

20 a second string that extends into said housing to connect securely with said upper connecting member and that is adapted to be connected securely to the resistance-providing member; and

an operating member adapted to be mounted movably  
25 on the stationary bicycle, connected securely to said first string, and operable to displace said buffering member, said upper and lower connecting members, and

said first and second strings in said axial direction so as to permit adjustment of the resistance-providing member.

2. The resistance adjuster of Claim 1, wherein said  
5 buffering member is in the form of a coil spring, said housing having an inner wall, said upper and lower connecting members being in sliding contact with said inner wall of said housing.

3. The resistance adjuster of Claim 1, wherein each  
10 of said upper and lower connecting members is in the form of a cylindrical block that is formed with a clamping hole therein for extension of a respective one of said first and second strings therethrough, and a radial slit extending in a radial direction  
15 relative to said axial direction, intersecting said clamping hole, and dividing said cylindrical block into first and second halves, said clamping hole having a cross-section and extending in said axial direction, each of said upper and lower connecting  
20 members including a screw bolt that engages threadedly said cylindrical block, that extends through said first half of said cylindrical block and into said second half of said cylindrical block in a transverse direction relative to said slit, and that  
25 intersects said slit so as to reduce said cross-section of said clamping hole and to thereby clamp the respective one of said first and second strings

between said first and second halves of said cylindrical block upon tightening of said screw bolt.

4. The resistance adjuster of Claim 3, wherein said cylindrical block of each of said upper and lower  
5 connecting members is further formed with a confining hole therein for extension of the other of said first and second strings therethrough.

5. The resistance adjuster of Claim 1, wherein said first string has an upper end that is connected  
10 securely to said operating member, and a lower end that is opposite to said upper end and that is connected securely to said lower connecting member, said second string having an upper end that is connected securely to said upper connecting member,  
15 and a lower end that is opposite to said upper end of said second string and that is adapted to be connected securely to the resistance-providing member.

6. The resistance adjuster of Claim 1, wherein said  
20 housing has upper and lower ends that are opposite to each other in said axial direction, said resistance adjuster further comprising upper and lower caps that are mounted respectively on said upper and lower ends of said housing, each of said upper and lower caps  
25 defining a confining recess that extends from the respective one of said upper and lower ends of said housing in said axial direction, each of said first

and second strings extending through said confining recess in a respective one of said upper and lower caps.

7. The resistance adjuster of Claim 1, wherein said  
5 first string has an upper end that is connected securely to said operating member, and a lower end that is opposite to said upper end and that is connected securely to said lower connecting member, said second string having an upper end that extends  
10 outwardly of said housing and that is adapted to be connected securely to a brake operating member, a lower end that is opposite to said upper end of said second string, that extends outwardly of said housing, and that is adapted to be connected securely to the  
15 resistance-providing member, and a middle segment that extends through and that is connected securely to said upper connecting member.